

# 208

## water quality management program

SFUND RECORDS CTR  
2390608

U.S.E.P.A.  
REGION 9  
ENV. CTR.

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March 5, 1980

Mr. Donald G. Myer, P.E.  
Director  
Office of Environmental Health  
Phoenix Area Indian Health Service  
801 East Indian School Road  
Phoenix, Arizona 85014

Dear Mr. Myer:

Enclosed is one copy of the supplementary chemical analyses conducted on the three gravel processing wells in the vicinity of the Tri-City Landfill. This is the additional sampling results referenced on page 8 of the "Groundwater Conditions Near the Tri-Cities Landfill" Report prepared by MAG.

If you have any questions or comments, please do not hesitate to call me.

Sincerely,



Mark R. Frank  
208 Program Coordinator

MRF:ab  
enclosure

cc: Lynn Wallace  
Barry Abbott  
Fred Hoffman ✓  
Tim Bray  
Charles Luster  
Dean Sloan  
Grover Serenbetz



MARICOPA ASSOCIATION OF GOVERNMENTS

APPENDIX A  
SUPPLEMENTARY CHEMICAL ANALYSES

Table 3 contains the results of chemical analyses of water from the three wells used for gravel processing. In general these wells are shallower than the Salt River Project wells to the south and east. However, the chemical quality of water from the gravel processing wells appears to be similar to that of water from the deeper wells. Salinity and nitrate contents are slightly higher in the shallower groundwater. Analyses for trace elements indicate generally low levels. Arsenic contents were all less than 0.01 mg/l. There is no indication of leachate contamination of groundwater in the vicinity of the landfill, based on data from existing wells.

TABLE 3 - CHEMICAL ANALYSES OF WATER  
FROM INDUSTRIAL WELLS NEAR TRI-CITIES LANDFILL

<u>Constituent (mg/l)</u>	<u>(A-1-5)</u> <u>3 acc</u>	<u>(A-1-5)</u> <u>4 dad</u>	<u>(A-2-5)</u> <u>34 ccb</u>
Calcium	62	45	51
Magnesium	18	17	20
Sodium	190	188	203
Potassium	4	4	4
Carbonate	0	0	0
Bicarbonate	243	262	204
Sulfate	60	63	64
Chloride	257	205	284
Nitrate	22	17	18
Fluoride	0.26	0.29	0.33
Iron	<0.05	<0.05	<0.05
Manganese	<0.01	<0.01	<0.01
Arsenic	<0.01	<0.01	<0.01
Zinc	<0.02	0.03	0.03
Cadmium	0.02	<0.01	0.01
Chromium	<0.01	<0.01	<0.01
Lead	<0.01	<0.01	<0.01
Boron	0.13	0.02	0.02
pH	7.4	7.6	7.7
Electrical Conductivity (micromhos/cm @ 25°C)	1,050	940	1,100
Total Dissolved Solids	707	673	710
Temperature (°F)	71	72	74
Date	1/11/80	1/17/80	1/17/80
Perforated Interval (feet)	-	T.D. 355	200-350